

LOW DENSITY PAPER SHEET AND TUBE
INCORPORATING THE SAME

ABSTRACT OF THE DISCLOSURE

5 The present invention provides a low-density paperboard sheet of at least one
paperboard layer made from a stock solution that includes a proportion of standard wood
flour or fine sawdust in addition to traditional cellulose fibers. The proportion of sawdust
can range from 1% to 40% by weight. Advantageously the sawdust of the present
invention does not require a costly refining or micronization operation in order to
10 produce low-density, high yield paperboard layers. Additionally, the low-density layers
of the present invention may be readily combined with other layers of varying densities in
order to tailor the physical properties of the resulting multi-layer sheet to a given
application.

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